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(12) **United States Patent**  
**Classen et al.**

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(54) **WATER-CONDUCTING DOMESTIC APPLIANCE COMPRISING A DETERGENT DOSING SYSTEM WITH FILL LEVEL DETECTION**

(58) **Field of Classification Search**

CPC ..... A47L 15/4454; A47L 15/4463; A47L 15/449; D06F 39/022

See application file for complete search history.

(71) Applicant: **BSH HAUSGERÄTE GMBH**, Munich (DE)

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(72) Inventors: **Egbert Classen**, Stahnsdorf (DE);  
**Helmut Jerg**, Giengen (DE)

(73) Assignee: **BSH Hausgeräte GmbH**, Munich (DE)

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 499 days.

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This patent is subject to a terminal disclaimer.

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*Primary Examiner* — Alexander Markoff

(74) *Attorney, Agent, or Firm* — Michael E. Tschupp;  
Andre Pallapies

**Related U.S. Application Data**

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(57) **ABSTRACT**

A water-conducting domestic appliance, in particular a domestic dishwasher, the water-conducting domestic appliance including a washing compartment for receiving items therein that are to be subjected to a washing cycle by the water-conducting domestic appliance; and a detergent dosing system, the detergent dosing system having a detergent dispenser with a receiving compartment, the receiving area for receiving at least one cartridge that is configured to hold at least one detergent, the detergent dosing system having the capability to store a quantity of detergent greater than a quantity needed for a single washing cycle and the detergent dosing system having an apparatus for detecting a fill level in at least one of the detergent dispenser and the at least one cartridge.

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**14 Claims, 5 Drawing Sheets**

